

19990323.qrp v01_n404.qrl.990323

Date: Tue, 23 Mar 1999 19:11:01 EST

From: qrp-l@Lehigh.EDU

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: QRP-L digest 1404

QRP-L Digest 1404

Topics covered in this issue include:

- 1) [36307] What Key Do You Use and Why (sorta' long)
by Fred J Kalt <w2xn@juno.com>
- 2) [36308] F.S. RS HTX-100.
by "Vincent Ferme" <vferme@sprint.ca>
- 3) [36309] swan drive
by "Jerry W. O'Dell" <jwodell@ameritech.net>
- 4) [36310] Re: R.S. Frequency Counter
by ka7you@juno.com
- 5) [36311] Re: BPSK-PSK31-where?
by John R Kirby <n3aaz-qrp@juno.com>
- 6) [36312] Summer fox?
by "Walter D. Amos" <waltk8cv@surfree.com>
- 7) [36313] Re: NC20 problem (section 10 - AFA)
by "William H. Launer" <launerb@crl.com>
- 8) [36314] Re: Grothe turns counter parts
by K2UD@aol.com
- 9) [36315] Re: Altoids rig
by Fran Flynn <fflynn@together.net>
- 10) [36316] Rainbow Tuner (Big Grin!!!)
by Jeff Johns <jeffj@scott.net>
- 11) [36317] Magnet Wire For Antenna?
by Jeff Johns <jeffj@scott.net>
- 12) [36318] HW-7 For Sale
by radioham@erols.com
- 13) [36319] W8KC HUMOR (long and worth it): Re: Magnet Wire For Antenna?
by "Paul R. Valko" <prvalko@oakland.edu>
- 14) [36320] Re: BPSK-PSK31-where?
by "George T. Baker" <w5yr@swbell.net>
- 15) [36321] First QRP QSO to the US
by "Zhen Leao" <by2hit@qsl.net>
- 16) [36322] Re: Need Help with Electronics Workbench
by "George T. Baker" <w5yr@swbell.net>
- 17) [36323] W5QN
by "George T. Baker" <w5yr@swbell.net>
- 18) [36324] Re: W8KC HUMOR (long and worth it): Re: Magnet Wire For Antenna?
by Jeff Johns <jeffj@scott.net>
- 19) [36325] Re: W8KC HUMOR (long and worth it): Re: Magnet Wire For Antenna?

- by "chris cieslak" <ccieslak@law.uiuc.edu>
- 20) [36326] Re: Grothe turns counter parts
by "chris cieslak" <ccieslak@law.uiuc.edu>
- 21) [36327] Artificial ground/counterpoise (long)
by Goran Hosinsky <hosinsky@royac.iac.es>
- 22) [36328] My Sierra is my Waldon.
by "Steve/n0tu" <n0tu@webaccess.net>
- 23) [36329] Re: Controlled Bandwidth, CW, RTTY and PSK31?
by Zack Lau <zlau@arrl.org>
- 24) [36330] Re: Summer fox?
by Bruce Rattray <rattray@gpfn.sk.ca>
- 25) [36331] FS: AT-160, UT-106
by "Mike Rioux" <mike@rioux.org>
- 26) [36332] Printer problem
by Michael Maiorana <mikemo@ibm.net>
- 27) [36333] Re: Controlled Bandwidth, CW, RTTY and PSK31?
by Bob Patten <n4bp@bc.seflin.org>
- 28) [36334] 38 Special problem,,, Sell or Build?
by Michael Neverdosky <MichaelN@cycat.com>
- 29) [36335] LDG autotuner ... where?
by Michael Neverdosky <MichaelN@cycat.com>
- 30) [36336] wx report from n3byy
by Scott Howell <showell@hq.nasa.gov>
- 31) [36337] Re: LDG autotuner ... where?
by W5TB <w5tb@SoftHome.net>
- 32) [36338] Re: LDG autotuner ... where?
by Michael Neverdosky <MichaelN@cycat.com>
- 33) [36339] RE:Tried PSK31 and Failed? Soundcard Problems? Then Read
by Bcieslak@ra.rockwell.com
- 34) [36340] HW-9
by Bruce Rattray <rattray@gpfn.sk.ca>
- 35) [36341] Time for some horse tradin'
by Rod Cerkoney <rwc@frii.com>
- 36) [36342] Re: Offbeat question...
by "Brian.Buydens@usask.ca" <buydens@duke.usask.ca>
- 37) [36343] info needed
by Bruce Rattray <rattray@gpfn.sk.ca>
- 38) [36344] R390A Wanted
by "Tom Moll" <tomm@xata.com>
- 39) [36345] Re: Re QRP Quiz and ARRL
by Zack Lau <zlau@arrl.org>
- 40) [36346] Re: LDG autotuner ... where?
by "Steve Sorrell" <ap036@detroit.freenet.org>
- 41) [36347] Glacier/Waterton Hamfest
by Bruce Rattray <rattray@gpfn.sk.ca>
- 42) [36348] PSK31
by n4js@pobox.com (John Sielke)
- 43) [36349] Heath IM-2410 counter - manual and schematic required for

repair

by Brien Pepperdine <pepperrb@govonca2.gov.on.ca>

44) [36350] NC20: grounding SLMACHco Custom Cases

by Gary L Surrency <gsurrency@juno.com>

45) [36351] Propagation tools

by Roger Hightower <n7kt@earthlink.net>

46) [36352] RE: NC20 Chirp

by Larry East <w1hue@amsat.org>

47) [36353] 2SC2312 Specs

by Larry East <w1hue@amsat.org>

48) [36354] Packing for Atlanticon

by PDouglas12@aol.com

49) [36355] RE: NC20 Chirp

by Dave Ek <ekdave@earthlink.net>

50) [36356] Re: Next NorCal Project

by Paul Harden <pharden@aoc.nrao.edu>

51) [36357] SFI... Bummer!

by Chris Cartwright <ccart@dns.vidtel.com>

52) [36358] Re: Packing for Atlanticon

by jeverhar@cse.l-3com.com

53) [36359] Re: SFI... Bummer!

by "Mike =?ISO-8859-1?Q?N=D8WDM"?= <michaelbstjames@email.msn.com>

54) [36360] Check RS Clearance Table

by Jeff Johns <jeffj@scott.net>

55) [36361] NC20 chirp and RIT

by tom whalen <wb5qyt@eFortress.com>

56) [36362] Curious Phenomenon . . (reflector driven)

by "Wyman, Michael D" <michael.d.wyman@intel.com>

57) [36363] For Trade: Unbuilt Emtech ZM-2 auto tuner

by "Peter Pavlovich" <radioroom@hotmail.com>

58) [36364] FYBO Prize List delayed a few more days

by Joe Gervais <vole@primenet.com>

59) [36365] Re: QRP ELT watch/xmtr

by "walter.b.thomas.1@pop300.gsfc.nasa.gov" <wthomas@pop300.gsfc.nasa.gov>

60) [36366] QRPTTF: One month left to plan!

by Joe Gervais <vole@primenet.com>

61) [36367] Re: FS cross-needle meters

by James Skalski <jskalski@localnet.com>

62) [36368] Gel Cel Recharging

by Don Lefrancois <wb1cdh@cwix.com>

63) [36369] Manual for Autek

by "Melvin K. Best" <kj5sp@parksbros.com>

64) [36370] Re: QRPTTF: One month left to plan\!

by "Ed Hare, W1RFI" <w1rfi@arrl.net>

65) [36371] FS - book "SMT Projects"

by Todd Nichols <nichols@rtp.ericsson.se>

66) [36372] Inverted *V* ant question

by RangerSF5@aol.com

- 67) [36373] Re: FS cross-needle meters
by "Joe spencer" <joes@tcjc.cc.tx.us>
68) [36374] Re: QRPTTF: One month left to plan!
by Roger Hightower <n7kt@earthlink.net>
69) [36375] WTB ANTENNA TUNER
by RangerSF5@aol.com
70) [36376] RE: New NorCal Kit to be announced Weds.
by dave.g0dja@psilink.co.uk (Dave Ackrill)
71) [36377] Mini transceivers
by dave.g0dja@psilink.co.uk (Dave Ackrill)
72) [36378] Ah, higher education & postmodernist news stories
by Nils R Young <nilsbull@juno.com>
73) [36379] Re: Gel Cel Recharging
by "Steven Weber" <kd1jv@moose.ncia.net>
74) [36380] Fireball 40 Rev. 2B
by Theodore Wong <wong_th@eng.printronix.com>
75) [36381] Re: Inverted *V* ant question
by Russ Hines <radioruss@fuse.net>

Date: Mon, 22 Mar 1999 18:56:54 -0500
From: Fred J Kalt <w2xn@juno.com>
To: qrp-l@lehigh.edu
Subject: [36307] What Key Do You Use and Why (sorta' long)
Message-ID: <19990322.185655.-982413.0.w2xn@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi Gang,

First I want to thank all who took the time to send me their preferences for method of generating CW and the reasons why they do it that way. Some responses only listed the method they used, some listed several ways, some listed more than one way. For preferences, some did not list them, others listed several reasons. Also, I have only listed the brand of paddles because paddles were most greatly used.

I want to say I thoroughly enjoyed reading each and every response. Thank you.

Here is the results:

Straight key	12	35%	
Bug		2	6%
Paddles and Keyer	19	56%	

Keyboard

1

3%

Now for the reasons:

Straight key:

- Likes sound

- Learned on dit

- Always used

- Don't know how to use keyer

- Don't have anything else

- Cheap

- Reliable

- Easy to repair

- Easier to switch between radios

- Less to learn

- Personally generate code

- Only true "CW" is a straight key

Bug:

- Likes character you can put in bug sending

Paddle and Keyer:

- Isn't tiring

- Only own paddles

- Less mistakes

- Easier with arthritis

- Not proficient with straight key

Keyboard:

- Always used and believes the only way to send

As for the types of paddles used:

- Bencher

- Mercury

- Norcal

- Ten Tec

- Kit

- Brass Racer

- MFJ

- BY1

- Whiterook

- Homebrew

- Brown Brothers

- Vibroplex

- Unnamed

Again, thanks for the responses. This was enjoyable.

Fred W2XN
Lakeland, FL
W5YI-VE Skywarn #POL-007 Polk County ARES Net Manager AR QRP
#233 QRP-L #1728
My Web Page:
<http://www.geocities.com/ResearchTriangle/Thinktank/5344/>

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com/getjuno.html>
or call Juno at (800) 654-JUNO [654-5866]

Date: Mon, 22 Mar 1999 19:20:30 -0500
From: "Vincent Ferme" <vferme@sprint.ca>
To: <qrp-l@lehigh.edu>
Subject: [36308] F.S. RS HTX-100.
Message-ID: <00af01be74c2\$f6f855a0\$e13267d1@vince>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi,

I would like to sell my HTX-100, it's in excellent condition both
cosmetically and electrically speaking. I have original microphone (PTT) and
manual.

This is a 10 M, SSB/CW XCVR with 5 and 25 W power settings.

Price is US\$180.00, shipping to the lower 48 included.

73 de Vince, VE3VFN.

Date: Tue, 23 Mar 1999 20:08:22 -0500
From: "Jerry W. O'Dell" <jwodel@ameritech.net>
To: qrp-l@lehigh.edu
Subject: [36309] swan drive
Message-ID: <19990323020508.YXR4450@default>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Boy is this not qrp: my swan 500 drive has turned to grit.
Where does one find info on how to lubricate it.

Sorry for the really off center bandwidth.

73 jerry w8gnd

Date: Mon, 22 Mar 1999 20:09:31 EST
From: ka7you@juno.com
To: n2zhy@amsat.org
Cc: qrp-l@Lehigh.EDU
Subject: [36310] Re: R.S. Frequency Counter
Message-ID: <19990322.172534.4511.4.ka7you@juno.com>

David,

The input port on the RS freq counter can only handle about 1.5 volts peak, as I recall. You might have already fried the input.

7 3,

Rod Johnson KA7YOU from grid CN97AK near Issaquah, Wa.
160M thru 1296 MHz-higher bands pending
ARCI-QRP #7251 QRP-L #844 NWQRP #120 NorCal #2007 and others

You don't need to buy Internet access to use free Internet e-mail.
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or call Juno at (800) 654-JUNO [654-5866]

Date: Mon, 22 Mar 1999 20:29:47 -0500
From: John R Kirby <n3aaz-qrp@juno.com>
To: n4js@pobox.com, qrp-l@Lehigh.EDU
Subject: [36311] Re: BPSK-PSK31-where?
Message-ID: <19990322.203216.-282493.1.n3aaz-qrp@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

FYI,

On Mon, 22 Mar 1999 21:40:37 GMT n4js@pobox.com (John Sielke) writes:
>The PSK31 sounded like it might be a fun QRP mode, so I downloaded the

>software. Seems to be working OK, but I have not found a signal to
>test it on. Where do the PSK31ers hang out? Just want to listen for a
>while, before I set up the transmitter interface.

>
> / \ / \ / \ / \ John L. Sielke n4js

jk...copy...>>but I have not found a signal to<<
jk...copy...>>test it on. Where do the PSK31ers hang out? <<

jk...copy...>>it might be a fun QRP mode<<

It is a blast...be sure to try it QRPP too!

NOTE:

PSK31 does not "stand out" or make a "periodic racket" like some of the
other modes, it is new and can be hard to identify, it is more a
continuous, melodious or tuneful whine and not very loud.

You will have to select a mode....either...

- 1) BPSK... it will appear to have "two spokes" to the "eye pattern"...
while,
- 2) QPSK... it will appear to have "four spokes" to the "eye pattern".

>-----

>PSK31...
>The proposed frequencies for QSO are these:
>
>1838.150
>3580.150 (European Round Table on Wednesdays and Sundays at 2000 UTC*)
>7035.150 (European Round Table on Sundays at 1100 UTC*)
jk...10136 and or 10400...?TBD? not sure yet?...jk...
>14070.150
>18100.150
>21080.150
>28120
>* These times are for winter time. On summer time, is an hour sooner.
>-----

My log also shows several PSK31 QSOs on of the following:
7072, 18107, 14068 thru 14072, 21069 and 21079.

Remember first use that "water fall display", (it is an absolute must),
while tuning in a received signal, else (due to such a narrow bandwidth)
your print will not be 100%, then switch the AFC to ON...THEN do not
touch the receiver tuning dial...

Enjoy,

John
N3AAZ
FM19xa
.

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or call Juno at (800) 654-JUNO [654-5866]

Date: Tue, 23 Mar 1999 01:38:49 +0000
From: "Walter D. Amos" <waltk8cv@surfree.com>
To: Qrp-l Reflector <qrp-l@lehigh.edu>
Subject: [36312] Summer fox?
Message-ID: <36F6F0A9.C7CF5634@surfree.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi Folks

Is there a "summer fox" and when does it start? Has this anything to do
with all the Norcal 20 kits?

--

Walt K8CV Royal Oak, Michigan, qrp-l # 935, Zombie # 188 !

"We're just a small sub-group of an eclectic corner of a dying hobby!"

Date: Mon, 22 Mar 1999 19:23:01 -0600
From: "William H. Launer" <launerb@crl.com>
To: qrp-l@Lehigh.EDU
Subject: [36313] Re: NC20 problem (section 10 - AFA)
Message-ID: <l03130300b31c9ba3076a@[192.0.2.1]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

When mine didn't work, I found that I'd put an 820pF cap at C108 instead of
an 82pF cap - put the vfo frequency around 2 MHz. Workes fine with the
proper cap (and I used a magnifier to read the cap values, too!!).

Bill

Bill Launer
St. Charles, MO
launerb@crl.com
wb0cld@wb0cld.ampr.org [44.46.66.25]
qrp-1 #279 qrp arci #3551
Grid Square EM48RT

Date: Mon, 22 Mar 1999 21:05:51 EST
From: K2UD@aol.com
To: qrp-1@lehigh.edu
Subject: [36314] Re: Grothe turns counter parts
Message-ID: <e679a3f6.36f6f6ff@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

Jim,

I bought 2 of them about 3 years ago from the guy who has made them for all these years. Give him a try, he may still be alive.

Robert H. Bauman Sales Co.
PO Box 122
Itasca, IL 60143
773-0573 (area code unknown)

BTW, what tuner is this for? I'm building Lew McCoy's Ultimate Transmatch right now.

72

Howard Kraus, K2UD

Date: Mon, 22 Mar 1999 21:19:31 -0500
From: Fran Flynn <fflynn@together.net>
To: qrp-1@lehigh.edu
Subject: [36315] Re: Altoids rig
Message-ID: <36F6FA33.1F566B72@together.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

N7YA said

>I apologize if this was already covered, but i probably missed the thread. i
>was sitting here looking at my little empty altoids tin and wondering just how
>compact i could go. has anyone ever attempted to cram a low power xcvr board,
>a Tick keyer...AND a tiny set of paddles into one of these tins? or am i just
>nuts.

I don't know if your nuts or not, actually, maybe most if not all hams
are, but anyway. I have a couple of dead 2.5" hard drives which sound
a bit like a small diesel engine when attempting to start one up.
Neither of them actually store data anymore, of course. As
I was holding one of them above the wastebasket ready to drop it in,
it occured to me, "gee, a qrp rig enclosure, rugged aluminum, could even
use the case to heat sink the final!". I'm still in the idea stage, if
it goes any farther I'll post to the list again. Or, anyone who wishes
is encouraged to carry this idea forth. There are lots of 5.25" MFM
hard drives which these days seem to have little use other than
enclosures
for radios. They seem to appear at hamfests in great numbers as well.
Use one of those if you might like a little more room in which to work.

Thanks for reading my drivel, 72

Fran KM1Z

Date: Mon, 22 Mar 1999 20:21:11 -0600
From: Jeff Johns <jeffj@scott.net>
To: qrp-l@Lehigh.EDU
Subject: [36316] Rainbow Tuner (Big Grin!!!)
Message-ID: <199903230221.UAA22819x@scott.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Content-Transfer-Encoding: 8bit

First of all I would like to thank _everyone_ who offered advice and
assistance to me regarding my Rainbow Tuner woes. There were too many to
thank individually, but rest assured, your input was most welcome and
valuable!

Here is the summary of what I did to the tuner this evening. First of all

many of you mentioned that a resistor across the antenna and ground wouldn't do the trick, especially a 50 ohm one, so I went ahead and cut a 1/2 wavelength antenna wire and a 1/4 wavelength counterpoise. I connected them to the binding posts and then hooked everything up the my SW40+ and to my surprise I actually heard the sound of CW, but it sound 'funny' and sort of 'muffled'. I was able to hear that by moving the tap switches and by turning the trim cap I was able to change the sound of the CW somewhat, but all the LED would light upon keying and the SWR Bridge "In & Out" switch didn't have any effect on turning the LED's off during keying the transmitter. By now, I was once again somewhat frustrated and went and grabbed a 'cold one' out of the fridge and pondered the problem some more.

After I calmed down a bit, I figured I would recheck my wiring against the supplemental note diagram (thanks to George Heron for providing it to me) and guess what? I discovered that the wire that goes to the ground side of the BNC connector was connected to the 'Out' terminal instead of the 'Gnd' terminal. Needless to say, a slight grin was probably evident on my face. I quickly soldered the wire to the correct terminal and once again hooked up the antenna wire and the transceiver, said a small prayer and pressed the key. All the LED's lit again so I fiddled with the tap switches and the trim cap and to my amazement I was able to get the SWR to <1.5:1 (only the green LED lit)!

It's amazing to me to see how by picking different taps and playing with the trim cap how you can lower the SWR. The unit is fully functional now, even the SWR Bridge 'In & Out' switch controls the lighting of the LED's properly now.

Now if I can just find some way to attach a knob to the trim cap the unit will be 'truly' finished.... I'm still accepting ideas and suggestions for that one <grin>.

Once again, thanks to all for the help!

73 Jeff

```
*----- Jeff Johns W4JEF - AMSAT# 32615 - QRP-L# 1857 -----*
|jeffj@scott.net w4jef@amsat.org | Reserve Patrol Captain |
| Satellite: Mir ROMIR-1, AO-27 | Jefferson County Sheriff's Dept|
|200LX+BayPac+FT50=Portable Packet| QTH Birmingham, AL USA |
*-----*
```

Date: Mon, 22 Mar 1999 20:57:03 -0600
From: Jeff Johns <jeffj@scott.net>
To: qrp-l@Lehigh.EDU

Subject: [36317] Magnet Wire For Antenna?
Message-ID: <199903230257.UAA04434x@scott.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Content-Transfer-Encoding: 8bit

This may be a silly question and I think I know the answer, but I would like for someone else to agree with me before I do it. Is a very thin guage wire such as magnet wire suitable for use as the 1/2 wavelength wire with my Rainbow? Now that I have the tuner ready to go I'm trying to find a way to hide the antenna from the eyesight of my XYL.

73 Jeff

```
*----- Jeff Johns W4JEF - AMSAT# 32615 - QRP-L# 1857 -----*
|jeffj@scott.net  w4jef@amsat.org |      Reserve Patrol Captain      |
|  Satellite: Mir R0MIR-1, AO-27  | Jefferson County Sheriff's Dept|
|200LX+BayPac+FT50=Portable Packet|      QTH Birmingham, AL USA    |
*-----*
```

Date: Mon, 22 Mar 1999 23:10:45
From: radioham@erols.com
To: qrp-l@lehigh.edu
Subject: [36318] HW-7 For Sale
Message-ID: <3.0.1.16.19990322231045.458f679c@pop.erols.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

>From the Heath List - e-mail Glenn , not me -

Date: Mon, 22 Mar 1999 22:34:25 -0500
To: heathkit@qth.net
From: Glenn Finerman <glennfin@mjet.com>
Subject: [HeathKit] HW-7 For Sale
Reply-To: Glenn Finerman <glennfin@mjet.com>

I have an HW-7 QRP rig that probably shouldn't be called a "parts rig" because it's almost all there and could be completed with a little effort.

It's missing the main tuning and af gain knobs, some parts on the, PC board... someone added an insulated shaft coupling arrangement to the main tuning dial, (completely reversable). Front panel is perfect, cabinet is 98% , front panel controls, buttons, meter, xtal holder dial,

all in place and working. No extra holes in the cabinet.

Includes an original manual.

\$32 including double box packing & shipping via UPS.

73.....Glenn Finerman K2KL

glennfin@mjet.com

Date: Mon, 22 Mar 1999 23:13:54 -0500 (EST)
From: "Paul R. Valko" <prvalko@oakland.edu>
To: Jeff Johns <jeffj@scott.net>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [36319] W8KC HUMOR (long and worth it): Re: Magnet Wire For Antenna?
Message-ID: <Pine.OSF.3.95.990322224003.21414D-1000000@saturn.acs.oakland.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Mon, 22 Mar 1999, Jeff Johns wrote:

> [is] magnet wire suitable for use as the 1/2 wavelength wire with
> my Rainbow? Now that I have the tuner ready to go I'm trying to find a
> way to hide the antenna from the eyesight of my XYL.

Ahhh! New Hams! Gotta love 'em.

You'll get 'engineer' reasons why you can not use magnet wire for a dipole, but as a freshly-minted and pragmatic 18 year old novice, I hid a 40M dipole from everyone by using 22 gauge enameled wire.

It blew down constantly, but it was all I used for several months. I even worked a couple new states once while the antenna was on the ground. The \$5 CB SWR meter I had still showed a perfectly-acceptable-for-a-novice 3:1 SWR.

My folks took a vacation and while they were away I decided I needed to expand my horizons. My best friend and I climbed up on the roof and clamped a 10' Radio Shack mast to a soil stack and put up an 80M dipole on our 60'x120' subdivision lot.

At that point, the knowledge gained as an D+ student in Engineering 101,

told me that the magnet wire would snap under it's own weight. I upped the wire to 16ga "zip" cord - which was quite visable.

My folks didn't notice that for a couple weeks after their return...

You see, prior to their return from the vacation, and as a diversionary tactic to the neighborhood... I threw a hellacious TOGA PARTY for a couple dozen of my closest friends - and many of THEIR friends.

Please keep in mind that this was 1976 and I *lived*, "That 70's Show."

The fallout from the party kept the neighbors from complaining about the new skyhook.

That antenna, and in fact all the RF generated at WN8ZJL is long gone.

But the neighbors STILL remember my party.

73! =paul= W8KC

Collector of Ten*Tecs and other fine plastics

<<http://www.acs.oakland.edu/~prvalko>>

Date: Mon, 22 Mar 1999 23:11:02 -0600
From: "George T. Baker" <w5yr@swbell.net>
To: n3aaz-qrp@juno.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [36320] Re: BPSK-PSK31-where?
Message-ID: <36F72266.E856E558@swbell.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Another tuning tip: try final tuning using the RIT control. This may be less touchy than the main tuning control which is probably tunes in no better than 10 Hz steps.

As John points out, the waterfall display is the final arbiter. I have repeatedly asked Peter to make it larger but he thinks that it is big enough as is and doesn't want to slow down program operation on slower computers by taking more time to draw a larger waterfall.

The shareware program GRAM.EXE draws a beautiful large waterfall but cannot be run concurrently with PSK31 with only one sound card in the

computer. Nonetheless, GRAM can be used for initial tuning and operation changed over to PSK31. Works for me!

72/73, George

Amateur Radio W5YR, in the 53rd year and it just keeps getting better!
AutoPOWER Systems, Fairview, TX (30 mi NE Dallas) Collin County
QRP-L QRP-ARCI FISTS NORCAL ZOMBIE #522 ARS 10-X 33.2 N 96.6 W EM13RE

John R Kirby wrote:

>
> Remember first use that "water fall display", (it is an absolute must),
> while tuning in a received signal, else (due to such a narrow bandwidth)
> your print will not be 100%, then switch the AFC to ON...THEN do not
> touch the receiver tuning dial...
>
> Enjoy,
>
> John
> N3AAZ
> FM19xa

Date: Tue, 23 Mar 1999 13:03:04 +0800
From: "Zhen Leao" <by2hit@qsl.net>
To: "QRP" <qrp-l@Lehigh.EDU>
Subject: [36321] First QRP QSO to the US
Message-ID: <012e01be74ec\$c45ebec0\$b2f0fea9@lsc1>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

This morning I worked N6XMW in CA on 0335z and he give me 579
signal report! He runs 100 watts and I gave him 599.

My working condition:

Rig: TS-180S
ANT: Homebrew GP antenna 10m High
Power: 5Watts with 1.5:1 SWR
QTH: Harbin, China

For detail information about our Club station you can
visit <http://www.qsl.net/by2hit/> and we put a BY station
call book there.

72/73

-Zhen Leao
BD4JI/BY2HIT

Date: Mon, 22 Mar 1999 23:26:01 -0600
From: "George T. Baker" <w5yr@swbell.net>
To: jrybak@mesastate.edu
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [36322] Re: Need Help with Electronics Workbench
Message-ID: <36F725E9.6BC2F5C@swbell.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Jim, I have used Electronics Workbench 5.0c for a couple of years now, but the issue of initial conditions has never come up in the work I have done. But the Help file says, under that topic:

"Use global temperature - if selected, uses temperature set in Analysis/Analysis Options. If not selected, uses temperature as specified.
Set initial conditions - sets initial conditions for analysis of component.
Some components will display additional parameters on this tab, for use in conjunction with the analysis options described in the Electronics Workbench Technical Reference."

For what that may be worth. I didn't look further - just enough to see that initial conditions are addressed. Suggest you dig through the Help files and see what they tell you. I think that 5.0c is the latest release.

72/73, George
Amateur Radio W5YR, in the 53rd year and it just keeps getting better!
AutoPOWER Systems, Fairview, TX (30 mi NE Dallas) Collin County
QRP-L QRP-ARCI FISTS NORCAL ZOMBIE #522 ARS 10-X 33.2 N 96.6 W EM13RE

James P Rybak wrote:

If you can set initial conditions, can someone please tell me how to
> do it?

>
> Thanks.
>
> Jim W0KSD

--

Date: Mon, 22 Mar 1999 23:39:38 -0600
From: "George T. Baker" <w5yr@swbell.net>
To: Donna Halper <dlh@donnahalper.com>, Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [36323] W5QN
Message-ID: <36F7291A.EFB1AA60@swbell.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Donna, I wanted to call your attention to the photo and brief write-up about my Elmer, W5QN, in the April QST. Bill will celebrate his 100th birthday on June 11! He is believed to be the oldest active amateur. While I haven't seen him since probably 1949 or so, he looks much the same as ever - and has much more hair on his head than I have been able to retain! I recognized the Vibroplex on his operating table - I remember the day in 1945 when it arrived in the mail! I used it many times working his station in early DX contests, etc.

Thanks again for your help in tracking down his Callbook status and for your interest.

Believe me, he is a tough act to follow!

--

72/73, George
Amateur Radio W5YR, in the 53rd year and it just keeps getting better!
AutoPOWER Systems, Fairview, TX (30 mi NE Dallas) Collin County
QRP-L QRP-ARCI FISTS NORCAL ZOMBIE #522 ARS 10-X 33.2 N 96.6 W EM13RE

Date: Mon, 22 Mar 1999 23:51:10 -0600
From: Jeff Johns <jeffj@scott.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [36324] Re: W8KC HUMOR (long and worth it): Re: Magnet Wire For Antenna?
Message-ID: <199903230551.XAA06572x@scott.net>
MIME-Version: 1.0

Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Content-Transfer-Encoding: 8bit

On Mon, 22 Mar 1999 23:13:54 -0500 (EST), "Paul R. Valko" <prvalko@oakland.edu> wrote:

> Please keep in mind that this was 1976 and I *lived*, "That 70's Show."

I'm still waiting for Fox to have a "That 80's Show" <g>.

Thanks to everyone for the magnet wire answers.... looks like I'll be putting some up in the tree this weekend if all goes as planned.

73 Jeff

```
*----- Jeff Johns W4JEF - AMSAT# 32615 - QRP-L# 1857 -----*
|jeffj@scott.net w4jef@amsat.org | Reserve Patrol Captain |
| Satellite: Mir R0MIR-1, AO-27 | Jefferson County Sheriff's Dept|
|200LX+BayPac+FT50=Portable Packet| QTH Birmingham, AL USA |
*-----*
```

Date: Mon, 22 Mar 1999 23:58:11 -0600
From: "chris cieslak" <ccieslak@law.uiuc.edu>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [36325] Re: W8KC HUMOR (long and worth it): Re: Magnet Wire For Antenna?
Message-ID: <001601be74f2\$2397a140\$54ba9acf@asimov.ais.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

It's no fair! You guys got to grow up with Collinses, Drakes, and Heathkits. What did people my age get? Pac-Man. :)

72/73, chris aa9hd

>> Please keep in mind that this was 1976 and I *lived*, "That 70's Show."

> I'm still waiting for Fox to have a "That 80's Show" <g>.

Date: Tue, 23 Mar 1999 00:15:24 -0600
From: "chris cieslak" <ccieslak@law.uiuc.edu>
To: <K2UD@aol.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [36326] Re: Grothe turns counter parts
Message-ID: <003301be74f4\$8a933ce0\$54ba9acf@asimov.ais.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

The area code for Itasca, IL is 630. We here in the Chicago area have endured numerous area code changes over the last few years.

72/73, chris aa9hd (once in the 312 area code, now in 708)

-----Original Message-----

From: K2UD@aol.com <K2UD@aol.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Date: Monday, March 22, 1999 8:16 PM
Subject: Re: Grothe turns counter parts

>Jim,
>
>I bought 2 of them about 3 years ago from the guy who has made them for all
>these years. Give him a try, he may still be alive.
>
>Robert H. Bauman Sales Co.
>PO Box 122
>Itasca, IL 60143
>773-0573 (area code unknown)
>
>BTW, what tuner is this for? I'm building Lew McCoy's Ultimate Transmatch
>right now.
>
>72
>
>Howard Kraus, K2UD
>

Date: Tue, 23 Mar 1999 10:04:49 +0000
From: Goran Hosinsky <hosinsky@royac.iac.es>

To: qrp-1@lehigh.edu
Subject: [36327] Artificial ground/counterpoise (long)
Message-ID: <36F76741.3485581C@royac.iac.es>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hello,

My primary goal with this exercise is get a good ground for the rig/computer system to help quieting my Philips monitor which makes a lot of noise. If the solution also allows me to run a longwire I will be pleased.

My shack is in a first floor balcony. I have two possibilities of RF grounding the equipment. I could run a vertical wire down to a ground rod or I can run two or three (for estetic reasons) thin counterpoises stapled to the bottom wooden structure of the balcony. The vertical wire would be 4.7m, connected to a short ground rod in stony ground, i.e. nearly $1/4$ wavelength on 20 m.

MFJ has a ground tuner, a series circuit with a current sensor. I think it would be necessary with a capacitor OR a coil to tune the ground, depending on the length of the wire to the ground point, a capacitor for lengths 0 -- $1/4$ wave, a coil for $1/4$ -- $1/2$ wave. A length near $1/4$ would probable be nearly impossible to tune with reasonable component values.

A counterpoise with a length which is not $1/4$ wave would have an impedance of $R \pm jX$ where $R=0$. IS THIS CORRECT? It would then be possible to tune it as a ground with a serial cap or coil. To calculate approximate values for the tuning impedance I could look at the counterpoise as a single line transmission line and use a Smith chart but I must know the impedance of the transmission line to do this. Extrapolating parallel transmission line values I would guesstimate around 900 Ohm impedance for the one line transmission line. IS THIS REASONABLE?

The same reasoning should be valid for the vertical wire to the ground rod but with the difference that the connecting point to the rod probably is a complex impedance not equal to zero.

Material for counterpoise: Could I use that famous magnet wire for counterpoise? I have some awg 28 wire which would be nearly invisible, or do I for some reason need thicker wire. Ground connections should normally be thick, low impedance according to

the books.

Please, if you have any comments about how I can best resolve the ground problem I would be grateful. I am leaning towards using a few, non resonant counterpoises in parallel, choosing the lengths so that they can be tuned to the different bands with reasonable component values. But for this to work my assumption that the real part of the impedance at the end of a counterpoise is ≈ 0 must be true, and I need a reasonable estimate of the impedance of the counterpoise seen as a transmission line to be able to choose the right lengths for tunability.

73

Goran ea8yu

Date: Mon, 22 Mar 1999 23:46:03 -0700
From: "Steve/n0tu" <n0tu@webaccess.net>
To: "QRP-L" <QRP-L@lehigh.edu>
Subject: [36328] My Sierra is my Waldon.
Message-ID: <000201be7527\$109c36c0\$9ba8a3cc@S&P.www.webaccess.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 8bit
Content-Transfer-Encoding: 8bit

I took the leap!

And it feels great!

My bench is clear of all QRO gear, manufactured rigs and anything that would distract my attentions from operating and building QRP rigs! I've found for myself that this activity is the essence of ham radio and helps keep the magic of HR alive for me. The first QSO that follows the turn on stage is most special. Besides I know the guy who made my radio ..I'm him (someone here on QRP-L said that)

My good old friends ...my Drake B line has found a new home and my Argosy is also soon on its way to a fellow ham. My lil Sierra sits all alone ...but is now king of the radio shelf. I thought I would really miss the Argosy in the mobile but I having a blast with my SST/20m is jammed inbetween the seats pounding out QSOs to and fro to work everyday. It amazing what 1.5-2w can do even from a mobile. It's a funny feeling to think that after 40 years of this nonsense I would have accumulated more stuff. Like a room full of sophisticated hi-tech rigs with mega buck antennas ready for instant world wide QSOs .

BUT instead my quest is to recapture and sustain that essence of HR. And for me it's my Sierra and my little portable monobanders! But the Sierra is really my Walden pound. It's my bay window to that magic world of RF and propagation and many new kindred spirits. At least for the time being that is until my simple world gets cluttered up again with possibly a new K2.

WHAT?

Is this a journey or distination or is the distination only a reflection of where we've been or where we think we should be going? Seems like I've been her before. (sorry I need to stop drinking that charcoal lighter)

Now ...where did my XYL hide dat NC20 kit! Forget taxes ...forget fixing the lawnmower.

I need a QRPkit fix. NOW!So what's this new Norcal Kit being annonced this week about?

TU & 72/73 ...Steve/n tu-Monument,CO

Date: Tue, 23 Mar 1999 08:18:27 -0500
From: Zack Lau <zlau@arrl.org>
To: qrp-1@lehigh.edu
Subject: [36329] Re: Controlled Bandwidth, CW, RTTY and PSK31?
Message-ID: <36F794A2.C2FB7630@arrl.org>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

For reduced CW bandwidth, how about removing either the upper or lower sidebands?--Zack W1VT

Date: Tue, 23 Mar 1999 07:22:12 -0600 (CST)
From: Bruce Rattray <rattray@gpfn.sk.ca>
To: "Walter D. Amos" <waltk8cv@surfree.com>

Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [36330] Re: Summer fox?
Message-ID: <Pine.LNX.3.95.990323071720.24136B-100000@neale.gpfn.sk.ca>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hello Walt....there's an April 1 through May 31 "fox"....the Canadian QRP Spring Bouquet activity...all qrp...a chance to Work All Canada QRP + receive a beautiful color Certificate for your ham shack....check this url: <http://www.rac.ca/> and look under services for rac members and then look for the QRP page....right now there's 12 operators who will be on the air as "Flower" (fox) stations and Earl, VE6EWM will be posting a schedule soon....should be fun....

...72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683 Zombie#272
A-1 Operator Club - 10/10# 944 - Regina, Saskatchewan. Canada
"QRP! How sweet it is!"

Date: Tue, 23 Mar 1999 12:40:05 -0000
From: "Mike Rioux" <mike@rioux.org>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [36331] FS: AT-160, UT-106
Message-ID: <0dc601be752a\$4743e260\$0a32a8c0@seabat>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi!
I have a like new Icom AT-160 automatic antenna tuner for sale.
To be used with IC-725/726/728/729, or the IC-706. With
box and docs. \$175 shipped Conus.
Also a new UT-106 DSP unit for the IC-706MkII, never used.
\$110 shipped Conus.
Thanks, Mike W1USN

Date: Tue, 23 Mar 1999 08:26:36 -0500
From: Michael Maiorana <mikemo@ibm.net>
To: qrp-l <qrp-l@Lehigh.EDU>
Subject: [36332] Printer problem
Message-ID: <36F7968C.22E326AC@ibm.net>

Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I have one 38 special kit in the unopened plastic bag, with the machined aluminum case.

I need to either build it or sell it to a worthy builder.

Given my project status I am inclined to sell the 38s and make my next jump a K2.

Looking for \$55 shipped, that is \$25/kit, \$25/case, \$5 shipping.

Please tell me why you want the rig, preference will be given to new kit builders and/or those with unique applications.

thanks

michael N6CHV

Date: Tue, 23 Mar 1999 08:53:14 +0000
From: Michael Neverdosky <MichaelN@cycat.com>
To: qrp-l mailing list <qrp-l@Lehigh.edu>
Subject: [36335] LDG autotuner ... where?
Message-ID: <36F7567A.354715@cycat.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Is LDG still around?

I am interested in an auto tuner but can't seem to find them on the web.

thanks

michael N6CHV

Date: Tue, 23 Mar 1999 08:57:54 -0500
From: Scott Howell <whowell@hq.nasa.gov>
To: qrp-l@lehigh.edu
Subject: [36336] wx report from n3byy
Message-ID: <3.0.5.32.19990323085754.007d3330@mail.hq.nasa.gov>

Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

ok guys/gals, here's the wx report from the land of Atlanticon.
Doesn't look at this point as if the wx is going to be very nice. Friday looks to be upper 40's and rain, and Saturday in the mid 50's and rain. Sorry folks I really tried, but looks as if all the dancing about in the yard did little good other than to attract unwanted attention. I'll post one more wx report on Thursday. I would imagine that most will be traveling between Thu and early Fri.

Lets hope things change on the wx front.

72 de Scott/n3bby
Fists #5030
reporting from Laurel MD

Date: Tue, 23 Mar 1999 08:15:14 -0500
From: W5TB <w5tb@SoftHome.net>
To: MichaelN@cycat.com, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [36337] Re: LDG autotuner ... where?
Message-ID: <v04011704b31d4444e4d9@[10.4.13.135]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 8:53 AM +0000 3/23/99, Michael Neverdosky wrote:
>Is LDG still around?
>I am interested in an auto tuner but can't seem to find them
>on the web.

Hi Michael! You'll find them at <http://www.morsex.com/kits.htm>

73 T.E. 'Doc' Drake W5TB

Arlington, TX w5tb@softhome.net <http://www.qsl.net/w5tb/>
QRP-ARCI # 3252 NORCAL #1002 QRP-L #673 FISTS # 5365
ARRL Life Member

Date: Tue, 23 Mar 1999 09:18:00 +0000
From: Michael Neverdosky <MichaelN@cycat.com>
To: qrp-l mailing list <qrp-l@Lehigh.edu>
Subject: [36338] Re: LDG autotuner ... where?
Message-ID: <36F75C48.301C4124@cycat.com>

MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Thanks for the quick response on the LDG question.

This list is GREAT!

michael N6CHV

> At 8:53 AM +0000 3/23/99, Michael Neverdosky wrote:
> >Is LDG still around?

Date: Tue, 23 Mar 1999 08:17:04 -0600
From: Bcieslak@ra.rockwell.com
To: qrp-1@lehigh.edu
Subject: [36339] RE:Tried PSK31 and Failed? Soundcard Problems? Then Read
Message-ID: <8625673D.004E0AEA.00@ramilwsmt01.ra.rockwell.com>
Mime-Version: 1.0
Content-type: text/plain; charset=us-ascii
Content-Disposition: inline

Can I use my 8 bit sound card??? I am using an older system in the shack(built from the left overs as I improve the main computer in the office) and the CD ROM (old 2x) has to plug into the Soundblaster card's IDE port. I bought a 16 bit card and I tried a seperate IDE card with the CD-ROM but it wouldn't work.

Brian AE9K

Date: Tue, 23 Mar 1999 08:43:24 -0600 (CST)
From: Bruce Rattray <rattray@gpfn.sk.ca>
To: QRP-Canada <qrp-canada@lists.gpfn.sk.ca>, Low Power Group <qrp-1@LeHigh.EDU>
Subject: [36340] HW-9
Message-ID: <Pine.LNX.3.95.990323083649.31087E-100000@neale.gpfn.sk.ca>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I just wanted to thank EVERYONE who has come to my aid and sent me all the

information I need to revive a comatose HW-9 and add the WARC bands to it as well....as well I'd like to thank all the people who helped put on the Elmer101 internet course...without having gone through that I doubt I would have had the courage to tackle this project...I'm at the point where I just have to make up a couple of test leads and looks like I'll be able to borrow a frequency counter for the job as well....these qrp lists are great and imho the life-blood of ham radio today!

...72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683 Zombie#272
A-1 Operator Club - 10/10# 944 - Regina, Saskatchewan. Canada
"QRP! How sweet it is!"

Date: Tue, 23 Mar 1999 07:44:15 -0700
From: Rod Cerkoney <rcw@frii.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [36341] Time for some horse tradin'
Message-ID: <4.1.19990323070501.0099ac90@mail.frii.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

HAVE:

HP 48G Calc. like new few months old, value ~\$100.

~4 months old. Bought it to get through the FCC testing, boy did I over buy!
Used it for practice tests in the Lic. manual only. Did "head math" during the tests.

OHR100A/20M value ~\$100-125

~5 months old. My first QRP rig, very good condition and works well. Can supply with 10-turn or one-turn tuning pot. Have NC20, don't need two 20M rigs see below.

ICOM IC-Q7A HT value ~\$150-200

~9mo. old. Great 2m, 440 yaker & RX Public Service Bands, FM BC. Gotta be honest here, I dropped this rig once, last July, the case has a minor nick or two, but the unit continues to work flawlessly. Amazing how sturdy it is!

All items come with the manufacturer's manuals...etc. The ICOM & calc will have mfg. packaging materials.

WANT:

CASH

-or-

YOUR CASH & OTHER STUFF in EXCHANGE FOR MY STUFF

-or-

MY CASH & MY STUFF in EXCHANGE FOR YOUR STUFF

-or-

JUST OTHER STUFF ; -)

STUFF I'M LOOKING FOR:

- o Whiterook paddles and/or keyer-paddle combo, MK-44, MK-64, MK-64MB, MK-88
- o 30M rig, OHR, EMTECH, SW preferred. Would love an unbuilt kit--need a torroid winding fix. ; -)
- o Ant. tuner, LDG, ZM-2 or Rainbow.
- o A really good paddle, Schurr, Mercury, Hensly....
- o Wilderness Sierra with at least a 15M band module. Would like 30, 10 module too but not necessary.

So that's about it for now, drop a line if you're interested in any of these items & we'll hammer out a fair deal.

72/3 NØRC

Rod Cerkoney, QRP-L #1764.

Fort Collins, CO

da di dah

Date: Tue, 23 Mar 1999 09:01:01 -0600 (CST)

From: "Brian.Buydens@usask.ca" <buydens@duke.usask.ca>

To: KB90CE@aol.com

Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>

Subject: [36342] Re: Offbeat question...

Message-ID: <Pine.OSF.4.05.9903230858500.5829-100000@duke.usask.ca>

MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

On Mon, 22 Mar 1999 KB90CE@aol.com wrote:

> connection. Due to the circuitry inside the Furby, I wonder if it is giving
> off some sort of RF signal that is triggering the radio to come on? So far it
> hasn't affected any of the "important" radios! Thanks in advance for your

I heard on the radio that Furbys have been banned in some hospitals in the pediatric ward because of their effect (or possible effect) on electronic equipment. But I don't know how serious the problem is. Anyone interested in trying for 1000mi/W on a furby?

Brian.

```
+-----+
| Brian Buydens,           Computing Services, University of Saskatchewan |
| email: Brian.Buydens@usask.ca           http://duke.usask.ca/~buydens |
| VE5RDV                                     |
+-----+
| DO NOT ADD ME TO ANY MAILING                                     All wiyht. Rho |
| LISTS WITHOUT MY CONSENT !!!                                   sritched mg kegtops |
|                                                                    around? |
+-----+
```

Date: Tue, 23 Mar 1999 09:05:48 -0600 (CST)
From: Bruce Rattray <rattray@gpfn.sk.ca>
To: Low Power Group <qrp-1@LeHigh.EDU>
Cc: Mary Cherry <mcherry@calweb.com>, Ken LaRose <kenlar@csolve.net>
Subject: [36343] info needed
Message-ID: <Pine.LNX.3.95.990323085845.5341A-1000000@neale.gpfn.sk.ca>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

....this posting is mainly for the winning Team members of the 40 mtr Fox Hunt, the HOUSTON HOUNDS....so you can DELETE now....

....I need any corrections in the following information or confirmation that all is accurate please...

Bill Stietenroth - K5ZTY -

9342 Goldenwood
Houston, TX 77086-2414

Bill Denton - W5SB -
11911 Marcia
Houston, TX 77065

Terry Myers - KQ5U -
23018 Tree Bright Ln.
Spring, TX 77373

Jim Clark - KK5LD -
P.O. Box 842004
Houston, TX 77284

....this information is needed for the Team Plaque as well as the winning
Team Certificates...thank you...

...72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683 Zombie#272
A-1 Operator Club - 10/10# 944 - Regina, Saskatchewan. Canada
"QRP! How sweet it is!"

Date: Tue, 23 Mar 1999 09:00:02 -0600
From: "Tom Moll" <tomm@xata.com>
To: <qrp-l@lehigh.edu>
Subject: [36344] R390A Wanted
Message-ID: <000601be753d\$d4ccf7d0\$4baa7acf@tomm.XATA-CORP>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Someone once told me that if you can't find something, look
somewhere else - somewhere you don't expect to find it.
So I'm looking here on QRP-L for the ultimate QRP receiver.
Collins R390A wanted. Does not need to be a museum piece.
No, not for backpacking, but maybe for hill topping from the back
of my truck with a generator.
It would be a great match with a Tuna Tin 2 don't you think ?
Or maybe as a backup receiver for the Pixie?
Tom Moll N0BS

Date: Tue, 23 Mar 1999 10:09:53 -0500
From: Zack Lau <zlau@arrl.org>
To: qrp-1@lehigh.edu
Subject: [36345] Re: Re QRP Quiz and ARRL
Message-ID: <36F7AEC0.B5D43404@arrl.org>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I wouldn't worry about driving away knowledgeable hams--they usually just direct their energies to other areas of ham radio. 73--Zack W1VT

Date: Tue, 23 Mar 1999 15:34:29 -0000
From: "Steve Sorrell" <ap036@detroit.freenet.org>
To: <MichaelN@cycat.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [36346] Re: LDG autotuner ... where?
Message-ID: <002c01be7542\$a6c6f2a0\$e642b3c7@sorrells>
MIME-Version: 1.0
Content-Type: text/plain;
charset="Windows-1252"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

You didn't look too hard! April 1999, QST (Not Q-Street) page 148 midway down the left column says the URL for LDG is:
www.ldgelectronics.com
email: ldg@ldgelectronics.com
de Steve, W8SFF

Date: Tue, 23 Mar 1999 10:47:48 -0600 (CST)
From: Bruce Rattray <rattray@gpfn.sk.ca>
To: Low Power Group <qrp-1@LeHigh.EDU>, QRP-Canada <qrp-canada@lists.gpfn.sk.ca>
Subject: [36347] Glacier/Waterton Hamfest
Message-ID: <Pine.LNX.3.95.990323103602.15364A-1000000@neale.gpfn.sk.ca>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

The good weather's coming, the snow is melting and the + temps are making

Date: Tue, 23 Mar 1999 11:52:54 -0500
From: Brien Pepperdine <pepperrb@govonca2.gov.on.ca>
To: qrp-1@lehigh.edu
Subject: [36349] Heath IM-2410 counter - manual and schematic required for repair
Message-ID: <3.0.6.32.19990323115254.007a9870@govonca2.gov.on.ca>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Late last fall I obtained a very nice shape (yes, that and \$1.50 gets me coffee)
Heath IM-2410 frequency counter, in anticipation of a very busy winter building.
Anyhow, the counter arrived, but did not work. It displays the numeral ZERO quite well, but no frequency counting.
Of course, it worked fine for the seller, and all that stuff. Lay that to rest.

So, on the assumption that it SHOULD work (having some degree of hope that the seller was correct - and research of previous transactions of sales seem to indicate good dealings)
I would like GET IT working. Might be alignment, calibration, who knows.

To do so, if anyone has the manual/schematic sfor this counter, I would very much like a photocopy, or the the original sent to me for copying and return to the owner.

Thanks
Brien
VE3VAW
Toronto

Date: Tue, 23 Mar 1999 10:12:44 -0700
From: Gary L Surrency <gsurrency@juno.com>
To: qrp-1@lehigh.edu
Subject: [36350] NC20: grounding SLMACHco Custom Cases
Message-ID: <19990323.101245.-4189531.3.gsurrency@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Gang,

If you bought one of Doug Hauff's custom cases, be aware that the hard anodizing is very good insulator. I checked the continuity of the front panel to ground, since the ground lug under the RIT control is supposed to accomplish this. There was infinite resistance!

Thinking of different ways to remove the anodizing from a little area just around the hole in the front panel for the RIT pot, I came up with this idea:

I had tried to remove the anodizing by scraping around the RIT pot hole, but quickly gave that up since the surface is so hard. I next tried a Dremel Moto-Tool with a little stone in it, but that was way too hard to control and I could not do an even job. Even when using the drill stand, it was too hard to control the moto-tool.

So I settled on using my small sandblaster. I taped a big steel flatwasher over the RIT hole, that left about a 1/4" all around the hole. A few blasts with the sandblaster's nozzle at very close range to the panel did the trick. I cleaned the panel well with a toothbrush and some soap to get all the dust off. There is a nice clean aluminum surface now for the solder lug to contact. I used a little light oil to keep down the corrosion between the dissimilar metals, and to inhibit the reformation of additional aluminum oxide. After firmly tightening the RIT control's hex mounting nut, there is good continuity from the panel to ground. I'm still looking for a 7mm internal tooth lockwasher to do this right, though. I had no lockwashers that would fit over the pot's threaded mounting.

Yes, the front panel might be grounded thru the rear and top covers when the full cabinet is installed. But I noticed that the metal pem nuts installed in the front and rear panels can not be relied upon for good grounding, as there is anodizing oxide inside of and on the surface of those holes. And it is better to securely ground the front panel using the RIT pot lug, since that insures a low impedance ground separate from the rear panel and cover ground paths. It also grounds the front panel when the covers are off while you are twiddling with the rig on the bench.

Just an FYI, for those of you who haven't put an ohmmeter from the front panel to the PCB ground plane. Has anybody else done this another way?

72,

Gary Surrency AB7MY QRP-L #571 Chandler, AZ (near Phoenix)

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com/getjuno.html>

or call Juno at (800) 654-JUNO [654-5866]

Date: Tue, 23 Mar 1999 10:40:17 +0000
From: Roger Hightower <n7kt@earthlink.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [36351] Propagation tools
Message-ID: <36F76F91.7B8C557A@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Whilst surfing around, I found a site for propagation tools and communication analysis. Programs written by Hams for hams.

Check out: <http://www.taborsoft.com>

I've downloaded some stuff, but haven't had a chance to check them out yet. Looking forward to playing with 'em.

--

72/73, de Roger, N7KT - QRP-L #62 - Zombie #006 - Mesa, AZ

Date: Tue, 23 Mar 1999 10:58:47 -0700
From: Larry East <wlhue@amsat.org>
To: qrp-l@lehigh.edu
Cc: "David Ek" <ekdave@earthlink.net>
Subject: [36352] RE: NC20 Chirp
Message-ID: <3.0.3.32.19990323105847.00920e70@axp1>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

>
>I measured the voltage at the input to U2, the 78L08, and at its output
>(both while it was in the circuit). The input was pulled down by about .2V
>during transmit (not surprising), while the output increased by about .2V
>during transmit. Don't really know how to interpret the increase in its
>output voltage. Anybody?

>

AH HA! I pointed out in a post almost a month ago that the output regulation of a 78L08 was not "perfect" ... and got severely beaten about the head and shoulders for inferring that there might be a "flaw" in the NC20 design! There is nothing intrinsically wrong with the NC20 design and I did not mean to infer that there was. The power supply voltage should be relatively "stiff" and it appears that yours isn't. However, it seems to

me that the 0.2V shift in the 78L08 output for a similar shift in the input V is a bit excessive; I would expect no more than 1/10 that amount, or about 0.02V maximum. So I suggest that you try (yet another) 78L08. You can also try replacing the 0.1uF bypass cap that is closest to the 78L08 with something larger -- say a 1.0uF to 10uF tantalum -- which may improve regulation somewhat. But you should also be using at least 18 gauge wire (preferably larger) from the power supply. And make sure your Gel Cells are well charged and none of the cells are "sick". Also check for any poor solder connections in the path between the power connector (also check for any voltage drop across the connector) and the 78L08.

Good luck & let us know what you find.

72, Larry W1HUE

Date: Tue, 23 Mar 1999 11:10:03 -0700
From: Larry East <w1hue@amsat.org>
To: qrp-l@lehigh.edu
Subject: [36353] 2SC2312 Specs
Message-ID: <3.0.3.32.19990323111003.0091c760@axp1>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Anyone know where to find a spec sheet on the WEB for a 2SC2312? Mitsubishi doesn't list it. It appears to similar to an MRF475 since RCA cross references both to the same SK device (NTE doesn't cross-reference it at all).

Thanks & 72,
Larry W1HUE

Date: Tue, 23 Mar 1999 13:58:35 EST
From: PDouglas12@aol.com
To: qrp-l@lehigh.edu
Subject: [36354] Packing for Atlanticon
Message-ID: <8aa4063b.36f7e45b@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

Lessee now:
In addition to regular stuff:

Add a rain slicker to the bag, and old sneakers for getting wet in.
Got the 2N2/40 packed with a J 38, and a battery, and connectors.
2 meter QRPp handie for local communication
Sunglasses (wishful thinking?)
Call letter hat (the one the kids won't let me wear at home)
Digital Camera and connector cord
Laptop for d/ling pictures and email
Cell phone

OK. I'm ready. Too bad it's only Tuesday. Back to work.

72,

Preston WJ2V

Date: Tue, 23 Mar 1999 12:04:22 -0700
From: Dave Ek <ekdave@earthlink.net>
To: qrp-l@lehigh.edu
Cc: Larry East <w1hue@amsat.org>
Subject: [36355] RE: NC20 Chirp
Message-ID: <3.0.6.32.19990323120422.0079e100@mail.earthlink.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Larry wrote:

>AH HA! I pointed out in a post almost a month ago that the output
>regulation of a 78L08 was not "perfect" ...

<snip>

Larry and Gang,

When I replaced the original 78L08, I did so with one of three replacements I bought at Tech America. At Bob W3CD's suggestion, I tested the other two in a test circuit by loading the output with a 470-ohm resistor and measuring the output voltage as I varied the input voltage from 10.5 to 13 V. In both cases, the result was that the output varied by 0.02 or 0.03 volts over that range. Remembering that the input voltage varied by only about 0.2V between transmit and receive, the results of this test lead me to believe that I should see a variation in the regulated output of only about 2 mV. I have my doubts that the 0.2V variation in regulator output voltage that I measured in circuit as the radio switched to transmit mode is the fault of the voltage regulator--I think it points to another problem somewhere. That being said, however, some would contend that even 2 mV of variation in voltage regulation is too much. Bob's sending me a "good"

78L08 to try. We'll see what happens.

I guess I'm skeptical about the NC20 being that inherently super sensitive to supply voltage characteristics while my other kit rigs seem to work just fine. Sure, you're gonna get chirp if you use a bad battery, but my NC20 chirps when using the same batteries and cables that work just fine with my OHR-100 (which is similar in voltage & current consumption) and my SW+'s (admittedly more lightweight). But I could very easily be wrong. (I may very well have inadvertantly exposed the vastness of my ignorance here. If so, please correct me gently.)

In the mean time, I'm going to experiment a little with some of the other suggestions I've received. Thanks to everyone who has offered advice. I'll keep you posted on what I find. This is a great learning experience for me. A few hundred more of these problems, and I'll be ready to design radios myself! ;-)

72 de Dave AB0GO

Date: Tue, 23 Mar 1999 12:16:31 -0700 (MST)
From: Paul Harden <pharden@aoc.nrao.edu>
To: qrp-l@lehigh.edu
Subject: [36356] Re: Next NorCal Project
Message-ID: <Pine.SOL.3.91.990323120217.21336A-100000@zia>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Gang,

I haven't been too involved with the latest NorCal kit, but it is kinda neat and clever. I think you'll find use for it on most any qrp test bench. It's also really quite cheap compared to if you had to purchase all the components separately. Real straight forward assembly, except I about went color-blind with all the resistors in the prototype. A bunch of them! (yes, a hint).

Talked to Doug last night, and he said he was just about done sorting all the resistors for it, and should be announcing it very soon. This week.

72, Paul NA5N

Date: Tue, 23 Mar 1999 15:26:05 -0500 (EST)
From: Chris Cartwright <ccart@dns.vidtel.com>
To: QRP Reflector <qrp-l@lehigh.edu>
Subject: [36357] SFI... Bummer!
Message-ID: <Pine.LNX.3.93.990323151134.617J-1000000@dns.vidtel.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

At <http://holly.cc.uleth.ca/solar/www/flux.html> it shows SFU at 256 (typo?) on 15-MAR-1999 and its down to 112 at 1700Z on 23-MAR-1999. So I have just one question....

Which one of you has been playing with the solar dimmer switch again!!
C'mon, fess up :-)

Methinks it's time for NA5N to step in and jump start the sun again...

-- Chris Cartwright, Technical Engineer | ccart@vidtel.com --
-- N3XRV ARRL-VE Norcal Zombie #163 | Gaithersburg, MD FM19je --
-- MDmW #5 NJ-QRP #105 QRP-L #655 NORCAL #1891 FISTS #5028 QRP-ARCI #9271 --

Date: Tue, 23 Mar 99 14:35:16 EST
From: jeverhar@cse.l-3com.com
To: PDouglas12@aol.com
Cc: qrp-l@lehigh.edu
Subject: [36358] Re: Packing for Atlanticon
Message-ID: <9903231935.AA19168@train11.cse.l-3com.com>

Preston,

I *hope* your regular stuff includes:

- a) Your Zombie badge so that we know it's really you
- b) lotsa money to buy all those QRP goodeis that you can't resist going for when you see them in person...

I'm fortunate since it is a relatively short drive (~2 hrs) and I have a minivan to cart along all of the things I can't do without for a weekend. :-)

Hmmm, considerig what I've seen on qrp-l in the last day or two, I wonder if

Paul Harden has analyzed the Furbis yet and if a new stealthy Furby rig is an upcoming Norcal kit.

See you there!

Joe E.

>
> Lessee now:
> In addition to regular stuff:
>
> Add a rain slicker to the bag, and old sneakers for getting wet in.
> Got the 2N2/40 packed with a J 38, and a battery, and connectors.
> 2 meter QRPp handie for local communication
> Sunglasses (wishful thinking?)
> Call letter hat (the one the kids won't let me wear at home)
> Digital Camera and connector cord
> Laptop for d/ling pictures and email
> Cell phone
>
> OK. I'm ready. Too bad it's only Tuesday. Back to work.
>
> 72,
>
> Preston WJ2V
>

Date: Tue, 23 Mar 1999 13:50:13 -0600
From: "Mike =?ISO-8859-1?Q?N=D8WDM"?= <michaelbstjames@email.msn.com>
To: <ccart@dns.vidtel.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [36359] Re: SFI... Bummer!
Message-ID: <004d01be7566\$5f9ea8e0\$343a0b3f@default>

The End of the Millennium is coming ... the Sun is going out !

There that should get Art Bell going for a while. ;^) mike n wdm

-----Original Message-----

From: Chris Cartwright <ccart@dns.vidtel.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Date: Tuesday, March 23, 1999 1:28 PM
Subject: SFI... Bummer!

>
>So I have just one question....
>
>Which one of you has been playing with the solar dimmer switch again!!
>C'mon, fess up :-)
>

Date: Tue, 23 Mar 1999 14:05:49 -0600
From: Jeff Johns <jeffj@scott.net>
To: qrp-l@Lehigh.EDU
Subject: [36360] Check RS Clearance Table
Message-ID: <199903232005.0AA10928x@scott.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Content-Transfer-Encoding: 8bit

While in the local Radio Shack store today buying some banana plugs for my antenna I glanced at the clearance table and found a DuoFone Paging Module 43-183. I got it for \$0.47. It has a nice plastic case RCA jack, about 10' of phone cable, when I opened it up I found two nice really small relays, the usual resistors, capacitors and diodes but also a 3.579545MHz crystal. The store manager said that they are on clearance across the country so you may want to see if they are in your area. You can definately get \$0.47 worth of stuff out of it, the original unit was \$39.99.

73 Jeff W4JEF

----- Jeff Johns W4JEF - AMSAT# 32615 - QRP-L# 1857 -----
jeffj@scott.net w4jef@amsat.org	Reserve Patrol Captain
Satellite: Mir R0MIR-1, A0-27	Jefferson County Sheriff's Dept
200LX+BayPac+FT50=Portable Packet	QTH Birmingham, AL USA

Date: Tue, 23 Mar 1999 13:08:07 -0700
From: tom whalen <wb5qyt@eFortress.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [36361] NC20 chirp and RIT
Message-ID: <36F7F4A7.3B24@eFortress.com>

MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi Gang!

I have replaced U8 and the chirp is still slight, but I may try another regulator...Try different brands maybe. WA7LNW and I have been on the air daily giving each other checks as well as a few others. Havin fun working the bugs out!!!

As far as the RIT acting like an XIT...I fixed it by replacing Q1 and Q9 with a NTE 457..Works beautiful now..

So, read the post from Dave on replacing all those caps...May do it this weekend...This rig is GREAT as is....luvin it!!

72, Tom WB5QYT.." Have spud will travel!"

Date: Tue, 23 Mar 1999 12:23:55 -0800
From: "Wyman, Michael D" <michael.d.wyman@intel.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [36362] Curious Phenomenon . . (reflector driven)
Message-ID: <3D33CF40366DD111AC4100A0C96B22AC03E6325C@fmsmsx34.fm.intel.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Is there a reason why I all of a sudden am getting double posts? It is like I'm registered twice to the same Email account?

Curious

72 de Mike W1DRY

AZ scQRPians

Date: Tue, 23 Mar 1999 12:24:10 PST
From: "Peter Pavlovich" <radioroom@hotmail.com>
To: qrp-l@Lehigh.EDU

Subject: [36363] For Trade: Unbuilt Emtech ZM-2 auto tuner
Message-ID: <19990323202410.18232.qmail@hotmail.com>
Mime-Version: 1.0
Content-type: text/plain

Hello all,

I have for trade an unbuilt Emtech ZM-2 auto tuner in original packing.
I'm interested in an Oak Hills WM-2 wattmeter. I can be reached via
email or at 248-332-5429 between 6pm-9pm EST. Thanks guys for reading
this.

72,

Peter Pavlovich N8EVJ
Get Your Private, Free Email at <http://www.hotmail.com>

Date: Tue, 23 Mar 1999 13:59:56 -0700 (MST)
From: Joe Gervais <vole@primenet.com>
To: qrp-1@Lehigh.EDU
Subject: [36364] FYBO Prize List delayed a few more days
Message-ID: <199903232059.NAA14405@usr05.primenet.com>

Howdy Folks,

Minor delay figuring out the FYBO prizes - seems yours truly
forgot to add "Number of AZ Stations Worked" to the Summary
Sheet. Makes it a bit more challenging to figure how who's
gonna win the Xcvr from WA5WHN and NN1G. :-)

So... Hope to have the FYBO Prize Winners announced in a few
days. Sorry for the delay. Between work and going through 100
logs counting AZ ops, I'm bogged. :)

Back to the Data Mines before the trolls realize I've escaped....

Cheers de AB7TT,

-Joe, vole@primenet.com, AZ ScQRPions (Phoenix)

"If it ain't fun, you ain't doin' it right!" -The AZ ScQRPions

Date: Tue, 23 Mar 1999 16:01:16 -0500

From: "walter.b.thomas.1@pop300.gsfc.nasa.gov" <wthomas@pop300.gsfc.nasa.gov>
To: qrp-1@Lehigh.EDU
Subject: [36365] Re: QRP ELT watch/xmtr
Message-ID: <v03007800b31d593f438c@[128.183.210.205]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

FWIW:

Aircraft ELT transmitters double
the output frequency to transmit
on BOTH 121.5 and 243.0 MHz. (The 243.0
frequency is in the military aircraft band.)
Thus any use of the Breitling device on
2M probably should include some low pass
filtering.
Walt Thomas K3ASW (ex-WA4KAC)

Date: Tue, 23 Mar 1999 14:18:05 -0700 (MST)
From: Joe Gervais <vole@primenet.com>
To: qrp-1@Lehigh.EDU
Subject: [36366] QRPTTF: One month left to plan!
Message-ID: <199903232118.0AA15369@usr05.primenet.com>

Howdy Folks, me again.

[NOTE: Please direct ALL questions regarding QRPTTF rules to
Paul (NA5N): pharden@aoc.nrao.edu]

Just a reminder that the 5th Annual "QRP To The Field"
event, sponsored by the fine critters at NorCal, is just
one short month away! That's not much time for any of us
field ops to pick a good site, get the station together,
and bribe/badger our spouses to let us out to play radio
again. *8-)

Great chance to work out the kinks in your ARRL Field Day
plan too! Practice your site selection, antenna raising,
station packing, etc. all before the Big Day in June hits
us.

I'll be heading to a special border location where I've

been promised snow (SNOW AT LAST!). :-) So break out the sunscreen and smiles, it's time to get ready to peg the Fun Meters yet again. *8-)

Saturday, April 24th is the day, full announcement is posted on the NorCal website:

<<http://www.fix.net/~jparkernorcal.html>>

Cheers de AB7TT,

-Joe, vole@primenet.com, Random NorCal Contest Critter

"If it ain't fun, you ain't doin' it right!" -The AZ ScQRPions

Date: Tue, 23 Mar 1999 16:26:20 -0500 (EST)
From: James Skalski <jskalski@localnet.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [36367] Re: FS cross-needle meters
Message-ID:
<Pine.LNX.4.04.9903231610350.17686-100000@valhalla.valhalla.buffalo.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

In response to questions about using the cross needle meters....

Build the SWR bridge circuit as you would for any meter.
Calibrate the forward meter with a potentiometer (same as any meter).
Next...

With the output connected to a 50ohm dummy load adjust the variable balance cap in the circuit so you get minimal reflected power on the reverse meter.

Next step is to reverse the connections to the SWR bridge ie connect your transmitter to the output and dummy load to the input. Now you can calibrate the reverse power meter scale with the potentiometer in the reflected power portion of the SWR bridge circuit.

When you connect the SWR bridge normally you will be able to calculate the SWR by looking at the cross over point on the SWR scale and read it directly. If anyone has any difficulty drop me a note.

To build a 3000Watt bridge you can use the schematic used in the 8877 amp circuit used by W8ZR. He uses 20 turns of 22e center tapped on a T50-6 toroid core. If you want a meter that works in the range of 1-1500 watts you can use the circuit described by Zack in the ARRL handbook. He uses ferrite cores at the lower power levels.

I still have about 30 meters left if anyone else needs some.

73,

Jim n2go

On Sun, 14 Mar 1999, James Skalski wrote:

> I have some brand new cross-needle meters. They were made to go in AEA
> antenna tuners and swr/wattmeters. They are the same ones used in MFJ
> meters. The forward scales is 0-300W and the reverse/reflected scale is
> 0-60W. Unlike usual meters this is two meters in one. A SWR scale is
> between the two scales and allows you to calculate SWR simultaneously.
> Dimensions are 2.8" square. the meter scale and panel opening size is
> 2.54" wide by 1.78" high.
>
> This meter could conceivably be used for 0-3,0-30,0-300 or 0-3000watts
> You can use any of the published meter circuits to finish off the meter.
> This saves you the trouble of putting calibration marks on your own meter.
> These are very sharp looking and can be backlit since they have a
> translucent back.
>
> Cost is \$12 plus shipping. (priority mail is \$3.20)
>
> 73,
>
> Jim n2go
>
>

Date: Tue, 23 Mar 1999 16:32:20 -0500
From: Don Lefrancois <wb1cdh@cwix.com>
To: QRP-L <QRP-L@Lehigh.edu>
Subject: [36368] Gel Cel Recharging
Message-ID: <000a01be7574\$b470cca0\$ca4a3ea6@0302316260447626>
MIME-version: 1.0
Content-type: text/plain; charset="iso-8859-1"
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi Guys,

Went to a ham flea market over the weekend. Got a gel cell for nothing. Now I want to use it for QRP work while on vacation. However, since I never had one of these "animals" I need a little bit of help.

How do I recharge a gel cell? I have been warned not to use regular auto battery charger.

This gel cell is a 12v 7ah battery. I read right now about 6 or 5 volts. I have been told these batteries have to be discharged first. Is this Discharged enough or must I make it go down to 0 volts.

Would a regular battery eliminator be sufficient to recharge this cell?

Lots of questions but hopefully none are "dumb".

Hoping to hear from you,

Don/K1NNP
Jewett City, Ct.

Date: Tue, 23 Mar 1999 15:58:55 -0600
From: "Melvin K. Best" <kj5sp@parksbros.com>
To: qrp-L@Lehigh.EDU
Subject: [36369] Manual for Autek
Message-ID: <36F80E9F.452A@parksbros.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Just purchased a Autek Research CMOS Keyer Mk-1 and was needing a manual or info on the memory use

tnx 73 de mel

Date: Tue, 23 Mar 1999 17:04:47 -0500
From: "Ed Hare, W1RFI" <w1rfi@arrl.net>
To: qrp-l@lehigh.edu
Subject: [36370] Re: QRPTTF: One month left to plan\!
Message-ID: <36F80FFF.6CE6@arrl.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Joe Gervais wrote:

> Just a reminder that the 5th Annual "QRP To The Field"
> event, sponsored by the fine critters at NorCal, is just
> one short month away! That's not much time for any of us
> field ops to pick a good site, get the station together,
> and bribe/badger our spouses to let us out to play radio
> again. *8-)

Speaking of good sites, I had no bites on who wants VT, NH or RI.
SOMEBODY must need one of them for Worked All States. :-) How about we
try it another way -- are any of you planning to operate from VT, NH or
RI for either the upcoming QRP ARCI Qso Party (4/10-4/11) or the QRPTTF
contest? If so, I will pick another state so you won't whip my butt too
badly. :-) Actually, I will pick another state to try to maximize the
number of "tough" NE states that are on for the 'tests.

73,
Ed, W1RFI
ARRL Lab

Date: Tue, 23 Mar 1999 17:15:32 -0500
From: Todd Nichols <nichols@rtp.ericsson.se>
To: qrp-1@lehigh.edu
Subject: [36371] FS - book "SMT Projects"
Message-ID: <36F81284.1AF4FED8@rtp.ericsson.se>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

FOR SALE - Book "SMT Projects" by Owen Bishop

Table of Contents:

- 1 - SMT - What is it?
- 2 - Surface Mount Devices
- 3 - Working with SMD's
- 4 - Projects [21 of them]
- 5 - Printed-circuit boards [for the projects]

This paperback book was printed in 1993 and is in excellent
shape. It discusses parts, tools, and fabrication techniques.
Most of the book presents a number of projects (yes, there are
some RF ones).

Terms: \$7 + \$3 shipping = \$10 total

Todd

--

Todd Nichols KB0HQU Ericsson Inc. (919) 472-7590
nichols@rtp.ericsson.se Research Triangle Park, NC

Date: Tue, 23 Mar 1999 17:18:29 EST
From: RangerSF5@aol.com
To: qrp-1@lehigh.edu
Subject: [36372] Inverted *V* ant question
Message-ID: <293aae1f.36f81335@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi Gang.

Have a problem here.

I had been using a 20-M dipole and broke every rule in the book making it.
Constructed of random pices of various sizes of hook up wire, and even a wire
coat hanger.

That antenna worked the world.

Today I built a new antenna, 14 GA. wire, legs 180* apart, up 65 feet, feed with
top of the line CATV coax 75 ohm, Apex angle 130 degrees.

Looks beautiful.

I'm using a 1-1 balun.

I can't get the SWR down and the MFJ analyzer says that the antenna is showing
50 ohms at 9.489, and a flat SWR..

I double checked my calcuations and cut the wire appx 8 inches longer then
needed for SSB on 14.240.

Can the balun be giving me the crazy readings because i'm using the CATV coax?

This is the first time i've used a balun with the 75 ohm feed line. (COAX)

Any suggestions??

Waiting for all the antenna experts.

Bob

WA2HOQ <tm>

Date: Tue, 23 Mar 1999 16:26:35 -0600
From: "Joe spencer" <joes@tcjc.cc.tx.us>
To: <jskalski@localnet.com>, "Low Power Amateur Radio Discussion" <qrp-
1@Lehigh.EDU>

Subject: [36373] Re: FS cross-needle meters
Message-ID: <026401be757c\$36435750\$8a0c040a@tcjc_ac04.tcjc>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi Jim,

I received the meter yesterday. Looks great! and just in time I need to fix an MFJ tuner with it...not the exact range but should be able to make the necessary circuit mods. Now I may have to order to build into that project or as a spare! :)
73 Joe KK5NA

-----Original Message-----

From: James Skalski <jskalski@localnet.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Date: Tuesday, March 23, 1999 3:32 PM
Subject: Re: FS cross-needle meters

>In response to questions about using the cross needle meters....
>
>Build the SWR bridge circuit as you would for any meter.
>Calibrate the forward meter with a potentiometer (same as any meter).
> Next...
>With the output connected to a 50ohm dummy load adjust the variable
>balance cap in the circuit so you get minimal reflected power on the
>reverse meter.
>Next step is to reverse the connections to the SWR bridge ie connect your
>transmitter to the output and dummy load to the input. Now you can
>calibrate the reverse power meter scale with the potentiometer in the
>reflected power portion of the SWR bridge circuit.
>
>When you connect the SWR bridge normally you will be able to calculate the
>SWR by looking at the cross over point on the SWR scale and read it
>directly. If anyone has any difficulty drop me a note.
>
>To build a 3000Watt bridge you can use the schematic used in the 8877 amp
>circuit used by W8ZR. He uses 20 turns of 22e center tapped on a T50-6
>toroid core. If you want a meter that works in the range of 1-1500 watts
>you can use the circuit described by Zack in the ARRL handbook. He uses
>ferrite cores at the lower power levels.
>
>I still have about 30 meters left if anyone else needs some.
>

> 73,
>
> Jim n2go
>
>On Sun, 14 Mar 1999, James Skalski wrote:
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meter.
>> These are very sharp looking and can be backlit since they have a
>> translucent back.
>>
>> Cost is \$12 plus shipping. (priority mail is \$3.20)
>>
>> 73,
>>
>> Jim n2go
>>
>>
>
>

Date: Tue, 23 Mar 1999 15:25:22 +0000
From: Roger Hightower <n7kt@earthlink.net>
To: vole@primenet.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [36374] Re: QRPTTF: One month left to plan!
Message-ID: <36F7B262.94AF9654@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

OK...we're planning.

Jim, KK6MC/5 and I are heading for Four Corners again, as we did last

year, so listen up for the 4X multipliers.

It's about a 7 hr drive from home, so we'll be hungry for QSO's to make it worthwhile. An then there's that fine restaurant in Cortez, CO with the microbrewery in it, :-)

Catch you all in a few weeks.

--

72/73, de Roger, N7KT - QRP-L #62 - Zombie #006 - Mesa, AZ

Date: Tue, 23 Mar 1999 17:35:39 EST
From: RangerSF5@aol.com
To: QRP-L@lehigh.edu, FOX_TANGO@qth.net
Subject: [36375] WTB ANTENNA TUNER
Message-ID: <dfed9e5b.36f8173b@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi again gang,
I'm tired of cutting and pruning for every band and making 50 trips to the upper part of the roof so I'm looking for an antenna tuner.
Last week someone mailed me info for the 901 tuner but I lost the URL
Will swap the MFJ analyzer and I do have the dip coils for it.
It's the model 259-B and I'm looking for a small tuner-300 watts max.
Thank You
Bob
WA2HOQrp <tm>

Date: Tue, 23 Mar 1999 22:36:18 -0800
From: dave.g0dja@psilink.co.uk (Dave Ackrill)
To: qrp-l@lehigh.edu
Subject: [36376] RE: New NorCal Kit to be announced Weds.
Message-ID: <E10PZkV-00070Y-00@relay3.mail.uk.psi.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I'm glad you didn't decide to wait until next Thursday.

:o)

de Dave (G0DJA)

Date: Tue, 23 Mar 1999 22:36:16 -0800
From: dave.g0dja@psilink.co.uk (Dave Ackrill)
To: qrp-l@lehigh.edu
Subject: [36377] Mini transceivers
Message-ID: <E10PZkT-00070Y-00@relay3.mail.uk.psi.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

>I apologize if this was already covered, but i probably missed the thread. i
>was sitting here looking at my little empty altoids tin and wondering just how
>compact i could go. has anyone ever attempted to cram a low power xcvr board,
>a Tick keyer...AND a tiny set of paddles into one of these tins? or am i just
>nuts.

>

> 73...Adam, N7YA

There was an article in QRP ARCI (I think) where someone had put a
transceiver into the case of a PP3 9V battery (the small ones!)

Perhaps he might have needed a second one for the paddles and keyer?

De Dave (G0DJA)

Date: Tue, 23 Mar 1999 15:36:37 -0500
From: Nils R Young <nilsbull@juno.com>
To: QRP-L@lehigh.edu
Subject: [36378] Ah, higher education & postmodernist news stories
Message-ID: <19990323.153725.11766.1.nilsbull@juno.com>

Gang,

Really, there is a QRP related deal in this whole thing. But first . . .
.

Cindy has been the acting head of the PR department at Wright State Univ
for about 6 weeks now. Today she brought me something that she'd found on
the Chronicle of Higher Education site. To wit:

<http://www.chronicle.com/daily/99/03/99032306n.html>

Somebody at the SubGenius Foundation sent the Chronicle a missive on

Foundation stationery saying that J.R. "Bob" Dobbs, the fictitious founder & short-term-personal-savior to millions of SubGenii, had been named president of the California Institute of Integral Studies. There's a whole lot more that's outright pranksterism. But then there's this in the news release (in which the Chronicle states that a retraction/correction is in the works): "The Church of the SubGenius predates the creation of the Web; bore then, it was solely a mail-order service."

So, if the CofSG can crawl from mail-order gang of gibberers to a Web-based conniption generatorium, just think what power we crazy few will have soon enough. We'll have the entire spectrum filled up with people who can't understand why anyone would get fired up about (a) building a radio [arguments about what's "home brew" versus "kits" for the moment suspended in disbelief that we'd even argue over it] that (b) uses less power than the headlights on the car [arguments about what the family car really is for the moment suspended in disbelief that people call their pick ups the family car] and still manage to (c) talk around the world [arguments about the rhetorical position of the rhetor as puller or pusher for the moment suspended in disbelief that we've actually catalogued and categorized language to that extent].

Buck up! Have faith! Some day even one of us might be famously rused. [Arguments about the real existence of some fictional characters on my web pages & elsewhere for the moment suspended in disbelief that I could even come up with such cockeyed inanities & go through the process of HTML coding to make 'em into some subtext of reality anyway, even after medication time.]

Now, I'm setting aside the rest of the summer to put the K2 together once it gets here. I even have a fancy aluminum road case all figured out for to make it a vacation item . . . in the year 2000, after the lights go out & Elvis, Lennie Bruce, Bruce Lee & J.R. "Bob" Dobbs come back from the external dementialities to save us from our own gullibility.

73

Nils

Nils R. Bull Young :: La Estancia de los Guajolotes Sonrientes
WB8IJN &c :: The Tagalong Press :: email to nilsbull@juno.com
"In my day we had to FIGHT to have email! Every day was a struggle!"
-- Comrade Sergei Nikolaievich

McTovarishov

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or call Juno at (800) 654-JUNO [654-5866]

Date: Tue, 23 Mar 1999 18:26:45 +0000
From: "Steven Weber" <kd1jv@moose.ncia.net>
To: wblcdh@cwix.com
Cc: qrp-1@lehigh.edu
Subject: [36379] Re: Gel Cel Recharging
Message-ID: <199903232311.SAA06116@moose.ncia.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Content-Transfer-Encoding: 7BIT

> This gel cell is a 12v 7ah battery. I read right now about 6 or 5 volts. I
> have been told these batteries have to be discharged first. Is this
> Discharged enough or must I make it go down to 0 volts.
>
Don,

A gel-cell should never be discharged to zero! In fact, it should never be discharged below about 1.9 V per cell, so a 12V battery that reads 5-6 volts is probably crap-ola. There is a chance it will come back, but at reduced current capacity and life. Never buy or even take a free gel cell that measures much less than it's rated voltage. (Unless you recycle lead or need a door stop :-)

Gel-cells, like any other lead acid battery should be charged as soon as possible after use and should be stored in a charged state.

Gel-cells should be charged at about 1/5 to 1/10 of the amp hour capacity. When the battery voltage reaches about 2.2 volts per cell, the charging rate should be reduced to a trickle charge rate (1/50 or less of the amp hour capacity).

To charge, I use a 2 amp, current limited supply set to 13.8V. The current limiting limits the charging current to a safe level when first connected. When the charge current drops to about 10 -20 ma, I disconnect it.

The reason a car battery charger isn't recommended is it can put a very high initial current into the battery, which will damage the plates. It might also cause the battery to over heat and explode!

BTW, to dispose of a dead gel-cell, take it to an auto service center and the people who come to take the old car batteries for recycling will also take the gel cells.

If you want a really big deep cycle battery, try a golf course. They often replace the golf cart batteries every season. Just be sure to bring your volt meter to weed out the really bad ones.

72,
Steve, KD1JV in the white Mountains of New Hampshire
"melt solder"

Date: Tue, 23 Mar 1999 15:11:31 -0800 (PST)
From: Theodore Wong <wong_th@eng.printronix.com>
To: qrp-1@lehigh.edu
Subject: [36380] Fireball 40 Rev. 2B
Message-ID: <199903232311.PAA04872@taz.printronix.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-MD5: u0lM+8pWW5vVyFZ/Z0Azxw==
Content-Transfer-Encoding: 7bit

Started building my FB40 concurrently with my NC-20. How's that for multi-tasking? I noticed on the FB40 rev.2B PC board that C1 and C6 are not grounded to ground plane. The schematic shows that they are. Is there an error with the board?

Regards,

Tedd AB6CO

Date: Tue, 23 Mar 1999 18:48:34 -0500
From: Russ Hines <radioruss@fuse.net>
To: RangerSF5@aol.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [36381] Re: Inverted *V* ant question
Message-ID: <36F82852.993FEB CD@fuse.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi Bob:

I'm not an antenna expert, so I'll leave it to L.B. and others to explain the details.

Here's my two cents for you:

Lose the balun, use a tuner. Lose the CATV cable, use RG-213.

Now, here's an antenna that's worked for me, time and again:

Approximately 65 feet of 18 AWG stranded wire inverted V at 35-40 feet above ground, fed at the apex/center with RG-8 or RG-213 through a tuner, i.e. DeMaw's SPC. No balun. Make sure ends are no less than 10 feet above ground. Make sure your equipment is properly grounded. Make contacts, have fun.

73,
WB8ZCC

RangerSF5@aol.com wrote:

>
> Hi Gang.
> Have a problem here.
> I had been using a 20-M dipole and broke every rule in the book making it.
> Constructed of random pices of various sizes of hook up wire, and even a wire
> coat hanger.
> That antenna worked the world.
> Today I built a new antenna, 14 GA. wire, legs 180* apart, up 65 feet, feed with
> top of the line CATV coax 75 ohm, Apex angle 130 degrees.
> Looks beautiful.
>
> I'm using a 1-1 balun.
> I can't get the SWR down and the MFJ analyzer says that the antenna is showing
> 50 ohms at 9.489, and a flat SWR..
> I double checked my calcuations and cut the wire appx 8 inches longer then
> needed for SSB on 14.240.
> Can the balun be giving me the crazy readings because i'm using the CATV coax?
> This is the first time i've used a balun with the 75 ohm feed line.(COAX)
> Any suggestions??
> Waiting for all the antenna experts.
> Bob
> WA2HOQ <tm>

End of QRP-L Digest 1404

